

DOW™ LDPE 421E

Low Density Polyethylene Resin

The Dow Chemical Company

Message:

DOW LDPE™421E low density polyethylene resin can be extruded by ordinary blown film process, and the melt temperature is between 160 and 195°C. When prepared, this resin has excellent mechanical properties even at a higher density (high stiffness) than a standard resin, while maintaining very high transparency and gloss. This resin has good drafting and processability. This product does not contain slip agent or opening agent.

regulatory requirements:

DOW LDPE 421E low density polyethylene resin shall meet the following regulatory requirements:

us food and drug administration regulation 21 CFR 177.1520(c)2.2

EU, No 10/2011

please consult the regulations for complete details.

Application field:

High transparency composite film

sexual packaging materials for soft items, such as paper towels, toilet paper, and women's hygiene products

high transparency paper towel packaging film

fresh food bag

food packaging film

General Information			
Agency Ratings		FDA 21 CFR 177.1520(c) 2.2	
		Europe No 10/2011	
Forms		Particle	
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.930	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.2	g/10 min	ISO 1133
Films	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-3
2% secant, MD: 50 µm	290	MPa	ISO 527-3
2% secant, TD: 50 µm	250	MPa	ISO 527-3
Tensile Stress			ISO 527-3
MD: Yield, 50 µm	11.0	MPa	ISO 527-3
TD: Yield, 50 µm	11.0	MPa	ISO 527-3
MD: Break, 50 µm	19.0	MPa	ISO 527-3
TD: Break, 50 µm	15.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Break, 50 µm	420	%	ISO 527-3
TD: Break, 50 µm	550	%	ISO 527-3
Dart Drop Impact (50 µm)	100	g	ISO 7765-1/A
Elmendorf Tear Strength			ASTM D1922
MD : 50 µm	500	g	ASTM D1922
TD : 50 µm	350	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method

Vicat Softening Temperature	102	°C	ASTM D1525
Extrusion	Nominal Value	Unit	
Melt Temperature	160 - 195	°C	
Extrusion instructions			

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